
SECTION 2.0

***TABULATION OF
OST TECHNOLOGY DEPLOYMENTS***

SUMMARY

FY 1999 Verified Deployments of OST Technologies [as of 2/10/2000]

68	Verified OST DOE Site First-Time Deployments
89	Verified OST DOE Site Subsequent Deployments
25	Verified OST Non-DOE Site Deployments
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182	Total Verified OST Deployments for FY 1999

FY 1991 - FY 1998 Deployments of OST Technologies

105	Verified OST DOE Site Deployments for FY 1998
8	Verified OST Non-DOE Site Deployments for FY 1998
187	OST DOE Site Deployments for FY 1991 - FY 1997
24	OST Non-DOE Site Deployments for FY 1991 - FY 1997
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324	Total OST Deployments for FY 1991 - FY 1998

FY 1991 - FY 1999 Summary

194	OST Technologies used by DOE Sites
449	Total Deployments of OST Technologies at DOE Sites
506	Total Deployments of OST Technologies at All Sites (including non-DOE Sites)

2.1 FY 1999 VERIFIED DOE-SITE FIRST-TIME DEPLOYMENTS

FY 1999 Verified OST DOE-Site First-Time Deployments

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
1	Albuquerque	Sandia National Laboratories - NM, Mixed Waste Landfill	10	606	Alternative Landfill Cover	SCFA
2	Albuquerque	Los Alamos National Laboratory, OU 1148	53	0	SEAMIST	SCFA
3	Albuquerque	Kansas City Plant, Reactive Barrier hydraulic monitoring	465	1365	Colloidal Borescope	SCFA
4	Albuquerque	Los Alamos National Laboratory	1449	1687	Innovative Rotary Crossflow System for Volume Reduction of Mixed Hazardous and Rad Waste	ESP
5	Albuquerque	Los Alamos National Laboratory, Stored Waste Drums at LANL	1568	1104	Nondestructive Waste Assay Using Combined Thermal Epithermal Neutron Interrogation	MWFA
6	Albuquerque	Los Alamos National Laboratory	2017	1521	NDA Support of the CAO's Performance Demonstration Program	MWFA
7	Albuquerque	Grand Junction Office, Monticello Remedial Action Project	2155	887	Permeable Reactive Treatment (PeRT) Wall for Rads and Metals	SCFA
8	Albuquerque	Los Alamos National Laboratory, TA 303	2158	1348	Segmented Gate System	SCFA
9	Albuquerque	Los Alamos National Laboratory, Radioactive Wastewater Treatment Plant	2391	1516	Chemical De-Nitrification Process	MWFA
10	Chicago	Brookhaven National Laboratory	74	1544	Pipe Explorer (TM) Surveying System	INDP
11	Chicago	Argonne National Laboratory - East, French Drain Area 317 and 319	2188	1848	Phytoremediation of Radiologically Contaminated Soils	SCFA
12	Chicago	Argonne National Laboratory - West, WAG9-OU-4	2188	1849	Phytoremediation of Radiologically Contaminated Soils	SCFA
13	Chicago	Brookhaven National Laboratory, Brookhaven Graphite Research Reactor	2374	1615	BNL ASTD: Deployment of Innovative Characterization Technologies and Implementation of the MARSSIM Process at Radiologically Contaminated Sites	DDFA
14	Chicago	Brookhaven National Laboratory, Sewage Treatment Plant	2913	1743	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
15	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	85	195	Light Duty Utility Arm	TFA
16	Idaho	Idaho National Engineering and Environmental Laboratory	166	1480	Polymer Microencapsulation	MWFA
17	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	278	1327	Robotic Tank Inspection End Effector	INDP
18	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	890	416	Stereo Viewing System	TFA
19	Idaho	Idaho National Engineering and Environmental Laboratory, Test Area North (TAN)	1762	1675	Micropurging of Wells	SCFA
20	Idaho	Idaho National Engineering and Environmental Laboratory, Process Experimental Pilot Plant	1898	1543	Personal Ice Cooling System (PICS)	DDFA

FY 1999 Verified OST DOE-Site First-Time Deployments

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
21	Idaho	Idaho National Engineering and Environmental Laboratory, RWMC	2122	1508	Advanced Tensiometer - Integrated Geophysical Characterization	CMST
22	Idaho	Idaho National Engineering and Environmental Laboratory	2158	1389	Segmented Gate System	SCFA
23	Idaho	Idaho National Engineering and Environmental Laboratory, Radiactive Waste Management Complex	2307	1391	Barometrically Enhanced Remediation Technology (BERT)(TM)	INDP
24	Idaho	Idaho National Engineering and Environmental Laboratory, Sewage Treatment Plant (CFA-691)	2322	1823	D&D and Remediation Optimal Planning System (DDROPS)	DDFA
25	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	2359	1487	Oceaneering Space Systems Tank Sampling Tool	INDP
26	Idaho	Idaho National Engineering and Environmental Laboratory, New Waste Calcining Facility	2381	1410	NWCF Offgas Sampling	MWFA
27	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	2386	1485	Heel Sampling End Effector	TFA
28	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	2393	1448	Remote End Effector Exchange System	TFA
29	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	2394	1449	Remote End Effector Tool Plate	TFA
30	Idaho	Idaho National Engineering and Environmental Laboratory, Test Area North	2930	1541	In Situ Sampling of Trichloroethylene at Test Area North	SCFA
31	Idaho	Idaho National Engineering and Environmental Laboratory, TREAT	2934	1519	Remote-Handled Transuranic Waste Surrogates	MWFA
32	Nevada	Nevada Test Site, Test Cell C, Area 25	1898	1689	Personal Ice Cooling System (PICS)	DDFA
33	Oak Ridge	Paducah Gaseous Diffusion Plant, Solid Waste Management Unit 91	4	1482	Lasagna	SCFA
34	Oak Ridge	Portsmouth Gaseous Diffusion Plant, X-701B Plume Site	7	1238	Dynamic Underground Stripping	SCFA
35	Oak Ridge	Portsmouth Gaseous Diffusion Plant, X-701B Plume Site	17	1499	Electrical Resistance Tomography for Subsurface Imaging	CMST
36	Oak Ridge	Portsmouth Gaseous Diffusion Plant, X-701B site	167	567	In Situ Chemical Oxidation Using Potassium Permanganate	SCFA
37	Oak Ridge	Paducah Gaseous Diffusion Plant	237	1463	Innovative DNAPL Characterization Toolbox	SCFA
38	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Melton Valley Storage Tanks: Concentrated LLW	350	1444	Crossflow Filtration	TFA
39	Oak Ridge	Paducah Gaseous Diffusion Plant, Site C400	1686	1584	Penetration Enhancement for the Cone Penetrometer Using Sonic Drilling Technology	CMST
40	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Building 3019	1898	1813	Personal Ice Cooling System (PICS)	DDFA

FY 1999 Verified OST DOE-Site First-Time Deployments

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
41	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Tank W-7 in the South Tank Farm of the Gunite & Associated Tanks (GAAT)	2085	1231	Houdini-II Remotely Operated Vehicle System	RBX
42	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Federal Facility Agreement (FFA) Tanks	2086	924	Remotely Operated Vehicle (ROV) System for Horizontal Tanks	RBX
43	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Tank W-5	2232	996	Flygt Mixer	TFA
44	Oak Ridge	Paducah Gaseous Diffusion Plant	2238	1671	Ribbon NAPL Sampler	CMST
45	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT tank W-9	2935	1577	Particle Size Distribution Monitor for Tank Waste Slurry	CMST
46	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT Tank W-9	2936	1580	Density Monitor for Tank Waste Slurry	CMST
47	Oakland	Lawrence Livermore National Laboratory - Main Site	2017	1522	NDA Support of the CAO's Performance Demonstration Program	MWFA
48	Ohio	Columbus Environmental Management Project - King Avenue	74	1486	Pipe Explorer (TM) Surveying System	INDP
49	Ohio	West Valley Demonstration Project	2383	1822	Vitrification Expended Material Processing System	TFA
50	Richland	Hanford Site, Hanford U-Plant	2402	1638	3-D Visual and Gamma Ray Imaging System	INDP
51	Richland	Hanford Site, Hanford U-Plant	2403	1639	Non-Intrusive Liquid Level Detection System	INDP
52	Richland	Hanford Site, 300 Area	2913	1539	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
53	Richland	Hanford Site, 300 Area, 300-FF-1 OU	2922	1676	Enhanced Site Characterization System	SCFA
54	Richland	Hanford Site, 221-U facility (ventilation tunnel)	2960	1667	Quantrad Scout Gamma Spectroscopy System	DDFA
55	Rocky Flats	Rocky Flats Environmental Technology Site, Pad 903	162	1640	Smart Sampling	SCFA
56	Rocky Flats	Rocky Flats Environmental Technology Site, Building 779	1898	1741	Personal Ice Cooling System (PICS)	DDFA
57	Savannah River	Savannah River Site, R-Area Process Sewers	74	1545	Pipe Explorer (TM) Surveying System	INDP
58	Savannah River	Savannah River Site, 321-M Area	873	1673	Field Raman Spectrograph	INDP
59	Savannah River	Savannah River Site, SRS F Tank Pump 1	1511	1788	AEA Fluidic Pulse Jet Mixer	TFA
60	Savannah River	Savannah River Site, E-Area Low-level Radioactive Waste Trenches	2122	1356	Advanced Tensiometer - Integrated Geophysical Characterization	CMST
61	Savannah River	Savannah River Site, M-Basin	2222	1605	Wireline Cone Penetrometer System for Multiple Tool Usage	INDP
62	Savannah River	Savannah River Site, R-Reactor Seepage Basins	2399	1401	GeoVis Video Camera System for CPT	CMST
63	Savannah River	Savannah River Site, FPT-1	2408	1520	SRS Pump Tank Mixer	TFA
64	Savannah River	Savannah River Site, Sanitary Landfill	2410	1862	Enhanced In Situ Bioremediation (ISB)	SCFA
65	Savannah River	Savannah River Site, Four Mile Creek	2913	1436	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
66	Savannah River	Savannah River Site, M-Basin	2949	1592	Color Recognition Sensor for Direct Push Systems	CMST

FY 1999 Verified OST DOE-Site First-Time Deployments

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
67	Savannah River	Savannah River Site, M-Basin	2950	1594	Membrane Interface Probe System for Direct Push System	CMST
68	Savannah River	Savannah River Site, C-Area Burning Rubble Pit	2966	1858	In-Situ Air Sparging & Soil Vapor Extraction	SCFA

2.2 FY 1999 VERIFIED DOE-SITE SUBSEQUENT DEPLOYMENTS

FY 1999 Verified OST DOE-Site Subsequent Deployments

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
1	Albuquerque	Sandia National Laboratories - NM, OU 228	2158	1300	Segmented Gate System	SCFA
2	Albuquerque	Los Alamos National Laboratory, OU C-33-010	2158	1740	Segmented Gate System	SCFA
3	Albuquerque	Los Alamos National Laboratory, C-33-007B	2158	1742	Segmented Gate System	SCFA
4	Chicago	Argonne National Laboratory - East, Chicago Pile 5	2100	1534	Remote Control Concrete Demolition System	DDFA
5	Chicago	Argonne National Laboratory - East, Chicago Pile 5 Reactor Facility Hot Cells	2100	1806	Remote Control Concrete Demolition System	DDFA
6	Idaho	Idaho National Engineering and Environmental Laboratory, Radioactive Waste Management Complex (RWMC)	154	1850	Very Early-Time Electromagnetic System	SCFA
7	Idaho	Idaho National Engineering and Environmental Laboratory, Test Area North Hot Shop	1840	1549	Gamma Cam (TM) Radiation Imaging System	DDFA
8	Idaho	Idaho National Engineering and Environmental Laboratory, Sewage Treatment Plant	1847	1553	Oxy-Gasoline Torch	DDFA
9	Idaho	Idaho National Engineering and Environmental Laboratory, Security Training Facility	1847	1555	Oxy-Gasoline Torch	DDFA
10	Idaho	Idaho National Engineering and Environmental Laboratory, Initial Engine Test Facility	1847	1556	Oxy-Gasoline Torch	DDFA
11	Idaho	Idaho National Engineering and Environmental Laboratory, Auxiliary Reactor Area	1847	1559	Oxy-Gasoline Torch	DDFA
12	Idaho	Idaho National Engineering and Environmental Laboratory, Advanced Test Reactor	1898	1563	Personal Ice Cooling System (PICS)	DDFA
13	Idaho	Idaho National Engineering and Environmental Laboratory, Security Training Facility	2100	1546	Remote Control Concrete Demolition System	DDFA
14	Idaho	Idaho National Engineering and Environmental Laboratory, TRA-660 Facility	2151	1478	Remote Underwater Characterization System (RUCS)	RBX
15	Idaho	Idaho National Engineering and Environmental Laboratory, Sewage Treatment Plant	2240	1560	Soft-Sided Waste Containers	DDFA
16	Idaho	Idaho National Engineering and Environmental Laboratory, Naval Reactors Facility	2240	1561	Soft-Sided Waste Containers	DDFA
17	Idaho	Idaho National Engineering and Environmental Laboratory, Auxiliary Reactor Area	2240	1688	Soft-Sided Waste Containers	DDFA
18	Idaho	Idaho National Engineering and Environmental Laboratory, CFA 691 Sewage Treatment Plant	2320	1504	Excel Automatic Locking Scaffold	DDFA

FY 1999 Verified OST DOE-Site Subsequent Deployments

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
19	Idaho	Idaho National Engineering and Environmental Laboratory, Security Training Facility	2320	1562	Excel Automatic Locking Scaffold	DDFA
20	Idaho	Idaho National Engineering and Environmental Laboratory, Test Area North Process Experimental Pilot Plant	2320	1578	Excel Automatic Locking Scaffold	DDFA
21	Idaho	Idaho National Engineering and Environmental Laboratory, TRA 660 Advanced Reactivity Measurement Facility, Coupled Reactivity Measurement Facility	2322	1505	D&D and Remediation Optimal Planning System (DDROPS)	DDFA
22	Nevada	Nevada Test Site, U-2bu crater, Area 2	1898	1690	Personal Ice Cooling System (PICS)	DDFA
23	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Melton Valley Storage Tanks: Concentrated LLW	20	1445	Out of Tank Evaporator	TFA
24	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Melton Valley Storage Tanks 29 and 30: Concentrated LLW	21	1446	Cesium Removal Using Crystalline Silicotitanate	TFA
25	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Melton Valley Storage Tanks W-26; Concentrated LLW	21	1732	Cesium Removal Using Crystalline Silicotitanate	TFA
26	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Melton Valley Storage Tanks W-27; Concentrated LLW	21	1738	Cesium Removal Using Crystalline Silicotitanate	TFA
27	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Melton Valley Storage Tanks W-31; Concentrated LLW	21	1739	Cesium Removal Using Crystalline Silicotitanate	TFA
28	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Pathway 2 (MSE TA) Upgrade	46	1708	Passive Reactive Barrier	SCFA
29	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT W-7: Pipe Capping and Waste Retrieval	85	1311	Light Duty Utility Arm	TFA
30	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT W-10: Pipe Cutting, Capping, and Waste Retrieval	85	1454	Light Duty Utility Arm	TFA
31	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Y-12 Reactive Barrier Trench S-3 Ponds	465	1302	Colloidal Borescope	SCFA
32	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT tank W-7	810	1734	LDUA Supervisory Data Acquisition and Supervisory Control System	TFA
33	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT tank W-10	810	1735	LDUA Supervisory Data Acquisition and Supervisory Control System	TFA
34	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT W-7	812	1253	Confined Sluicing End Effector	TFA
35	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), BVEST Tank C-1	1511	1308	AEA Fluidic Pulse Jet Mixer	TFA
36	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), BVEST Tank C-2	1511	1309	AEA Fluidic Pulse Jet Mixer	TFA
37	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT W-10: Pipe Cutting	2093	1450	Pipe Cutting and Isolation System	TFA

FY 1999 Verified OST DOE-Site Subsequent Deployments

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
38	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT W-7: Pipe Cutting	2093	1729	Pipe Cutting and Isolation System	TFA
39	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT Tank W-9	2232	1826	Flygt Mixer	TFA
40	Oakland	University of California at Davis, LEHR	70	1379	BetaScint Fiber-Optic Sensor for Detecting Strontium-90 and Uranium-238 in Soil	CMST
41	Ohio	Fernald Environmental Management Project, Area 8 Phase III	2157	1437	Portable Hi-Purity Germanium Detectors for Delineating Contamination in Soils	CMST
42	Ohio	Fernald Environmental Management Project, Area 2, Phase III	2157	1453	Portable Hi-Purity Germanium Detectors for Delineating Contamination in Soils	CMST
43	Ohio	Fernald Environmental Management Project, Plant 8F, Drum Washer Facility	2303	1329	Track Mounted Shear/Crusher	DDFA
44	Richland	Hanford Site, DR Reactor	1795	1629	Mobile Integrated Temporary Utility System	DDFA
45	Richland	Hanford Site, 221-U Facility	1840	1634	Gamma Cam (TM) Radiation Imaging System	DDFA
46	Richland	Hanford Site, T-Plant	1840	1805	Gamma Cam (TM) Radiation Imaging System	DDFA
47	Richland	Hanford Site, F Reactor	1847	1632	Oxy-Gasoline Torch	DDFA
48	Richland	Hanford Site, DR Reactor	1847	1837	Oxy-Gasoline Torch	DDFA
49	Richland	Hanford Site, F Reactor	1954	1633	Sealed-Seam Sack Suit	DDFA
50	Richland	Hanford Site, DR Reactor	1954	1838	Sealed-Seam Sack Suit	DDFA
51	Richland	Hanford Site, DR Reactor	2153	1630	Compact Subsurface Investigation System	DDFA
52	Richland	Hanford Site, 221-U Facility, Ventilation Tunnel	2178	1510	CDI Remote Characterization System	RBX
53	Rocky Flats	Rocky Flats Environmental Technology Site, East Trenches Plume	46	1343	Passive Reactive Barrier	SCFA
54	Rocky Flats	Rocky Flats Environmental Technology Site, Solar Ponds Plume	46	1427	Passive Reactive Barrier	SCFA
55	Rocky Flats	Rocky Flats Environmental Technology Site, Building 779	1942	1811	Position Sensitive Radiation Monitoring (Surface Contamination Monitor)	DDFA
56	Savannah River	Savannah River Site, ORWBG	55	1547	ResonantSonic Drilling	SCFA
57	Savannah River	Savannah River Site, Vadose Zone, A-014 Outfall	237	1367	Innovative DNAPL Characterization Toolbox	SCFA
58	Savannah River	Savannah River Site, Saturated Zone, A-014 Outfall	237	1368	Innovative DNAPL Characterization Toolbox	SCFA
59	Savannah River	Savannah River Site, C-Area Burning Rubble Pit (Vadose Zone)	237	1371	Innovative DNAPL Characterization Toolbox	SCFA
60	Savannah River	Savannah River Site, Vadose Zone, A-014-Outfall	237	1457	Innovative DNAPL Characterization Toolbox	SCFA
61	Savannah River	Savannah River Site, Vadose Zone, A-014-Outfall (2)	237	1458	Innovative DNAPL Characterization Toolbox	SCFA
62	Savannah River	Savannah River Site, 321-M Area	237	1814	Innovative DNAPL Characterization Toolbox	SCFA

FY 1999 Verified OST DOE-Site Subsequent Deployments

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
63	Savannah River	Savannah River Site, R-Reactor Seepage Basins	237	1816	Innovative DNAPL Characterization Toolbox	SCFA
64	Savannah River	Savannah River Site, M-Basin	237	1818	Innovative DNAPL Characterization Toolbox	SCFA
65	Savannah River	Savannah River Site, CTS Pit Pad H Area	1839	1779	Reactor Surface Contamination Stabilization	DDFA
66	Savannah River	Savannah River Site, ITP Tank 42	1839	1780	Reactor Surface Contamination Stabilization	DDFA
67	Savannah River	Savannah River Site, Tank 15 H Area (2nd phase)	1839	1781	Reactor Surface Contamination Stabilization	DDFA
68	Savannah River	Savannah River Site, 105 C Decon Facility (encapsulation of lead from 232F Facility)	1839	1782	Reactor Surface Contamination Stabilization	DDFA
69	Savannah River	Savannah River Site, ITP Tank 51	1839	1783	Reactor Surface Contamination Stabilization	DDFA
70	Savannah River	Savannah River Site, 105 L Transfer Bay	1839	1784	Reactor Surface Contamination Stabilization	DDFA
71	Savannah River	Savannah River Site, F Area Caustic Tank Basin	1839	1785	Reactor Surface Contamination Stabilization	DDFA
72	Savannah River	Savannah River Site, Old HB Line	1839	1786	Reactor Surface Contamination Stabilization	DDFA
73	Savannah River	Savannah River Site, 235-F Vault	1839	1839	Reactor Surface Contamination Stabilization	DDFA
74	Savannah River	Savannah River Site, 678-T Pad	1839	1841	Reactor Surface Contamination Stabilization	DDFA
75	Savannah River	Savannah River Site, RBOF Pad	1943	1801	ROTO PEEN Scaler and VAC PAC System	DDFA
76	Savannah River	Savannah River Site, SRTC	1943	1802	ROTO PEEN Scaler and VAC PAC System	DDFA
77	Savannah River	Savannah River Site, 105-C	1943	1804	ROTO PEEN Scaler and VAC PAC System	DDFA
78	Savannah River	Savannah River Site, A-014 Outfall	2238	1526	Ribbon NAPL Sampler	CMST
79	Savannah River	Savannah River Site, C-area Burning Rubble Pits	2238	1527	Ribbon NAPL Sampler	CMST
80	Savannah River	Savannah River Site, 321-M Solvent Storage Tank	2238	1712	Ribbon NAPL Sampler	CMST
81	Savannah River	Savannah River Site, A-014 Outfall	2238	1713	Ribbon NAPL Sampler	CMST
82	Savannah River	Savannah River Site, Vadose Zone	2238	1763	Ribbon NAPL Sampler	CMST
83	Savannah River	Savannah River Site, Saturated Zone	2238	1766	Ribbon NAPL Sampler	CMST
84	Savannah River	Savannah River Site, Upper Three Runs	2913	1558	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
85	Savannah River	Savannah River Site, Steel Creek, 2-A Site	2913	1744	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
86	Savannah River	Savannah River Site, Pen Branch, 3 Site	2913	1745	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
87	Savannah River	Savannah River Site, Lower Three Runs	2913	1854	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
88	Savannah River	Savannah River Site, A-014 Outfall	2950	1695	Membrane Interface Probe System for Direct Push System	CMST
89	Savannah River	Savannah River Site, C-Area Burning Rubble Pit	2950	1696	Membrane Interface Probe System for Direct Push System	CMST

2.3 FY 1999 VERIFIED NON-DOE DEPLOYMENTS BY LOCATION

FY 1999 Verified OST Non-DOE Site Deployments

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
1	Non-DOE	Cape Canaveral (Launch Complex 34 (MSE-TA)) - Cape Canaveral, FL, United States	5	1408	Six-Phase Soil Heating	SCFA
2	Non-DOE	Commercial Site (Dry Cleaning) - Jacksonville, FL, United States	2237	1582	LIF Probe for CPT	CMST
3	Non-DOE	EPA Superfund Site (McCormick Barton Wood Preserving Plant) - Stockton, CA, United States	2238	1528	Ribbon NAPL Sampler	CMST
4	Non-DOE	Farm Credit Building (5th Floor computer Room) - Saint Paul, MN, United States	73	1724	In Situ Chemical Treatment of Asbestos	DDFA
5	Non-DOE	FUSRAP Ashland 1 Site - Tonowanda, NY, United States	2946	1728	Adaptive Sampling and Analysis Programs (ASAPs)	CMST
6	Non-DOE	Heritage Village (Dwelling Unit) - Southbury, CT, United States	73	1723	In Situ Chemical Treatment of Asbestos	DDFA
7	Non-DOE	Jacksonville (Sages Dry Cleaner) - Jacksonville, FL, United States	237	1369	Innovative DNAPL Characterization Toolbox	SCFA
8	Non-DOE	Kennedy Space Center (Cape Canaveral Air Station) - Cape Canaveral, FL, United States	307	1295	In Situ Permeability Measurements with Direct Push Techniques	CMST
9	Non-DOE	Kennedy Space Center (Cape Canaveral Air Station, Hanger K) - Cape Canaveral, FL, United States	381	1730	Miniature Pumps in the Cone Penetrometer Tip for Groundwater and Soil Sampling (Cone Sipper)	CMST
10	Non-DOE	Kennedy Space Center (Cape Canaveral Air Station. Launch Complex 34) - Cape Canaveral, FL, United States	2238	1299	Ribbon NAPL Sampler	CMST
11	Non-DOE	Kennedy Space Center (Cape Canaveral Air Station/Hanger K) - Cape Canaveral, FL, United States	243	1586	Cone Penetrometer Support: Operation, Maintenance, and R&D Activity Conducted on the OTD Cone Penetrometer Vehicle	CMST
12	Non-DOE	Kennedy Space Center (Cape Canaveral Air Station/Launch Complex 34) - Cape Canaveral, FL, United States	2399	1400	GeoVis Video Camera System for CPT	CMST
13	Non-DOE	NASA, Kennedy Space Center (Cape Canaveral Air Stn., Launch Complex 34) - Cape Canaveral, FL, United States	237	1809	Innovative DNAPL Characterization Toolbox	SCFA
14	Non-DOE	Netherlands National Geological Survey (NEPROMA PCW site) - Netherlands	1737	1421	DNAPL Bioremediation - RTDF	SCFA
15	Non-DOE	Newport News Shipyard (USS Nimitz) - Newport News, VA, United States	1840	1857	Gamma Cam (TM) Radiation Imaging System	DDFA
16	Non-DOE	North Island Naval Base (Deployment Site #1 CDF) - CA, United States	465	1719	Colloidal Borescope	SCFA
17	Non-DOE	North Island Naval Base (Deployment Site #10) - CA, United States	465	1718	Colloidal Borescope	SCFA
18	Non-DOE	North Island Naval Base (Deployment Site #9) - CA, United States	465	1720	Colloidal Borescope	SCFA
19	Non-DOE	Poland (Czechowice Oil Refinery) - Czechowice, Poland	2188	1656	Phytoremediation of Radiologically Contaminated Soils	SCFA

FY 1999 Verified OST Non-DOE Site Deployments

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
20	Non-DOE	Shaw Air Force Base (OU-4) - Sumter, SC, United States	46	1717	Passive Reactive Barrier	SCFA
21	Non-DOE	Tower Properties (Elevator Shafts) - Kansas City, MO, United States	73	1725	In Situ Chemical Treatment of Asbestos	DDFA
22	Non-DOE	University of Wisconsin (Dormitory Hallway) - Madison, WI, United States	73	1722	In Situ Chemical Treatment of Asbestos	DDFA
23	Non-DOE	Visalia (Power Pole Treatment Yard) - Visalia, CA, United States	1519	1736	Hydrous Pyrolysis/Oxidation	SCFA
24	Non-DOE	Visalia (Power Pole Treatment Yard) - Visalia, CA, United States	7	1842	Dynamic Underground Stripping	SCFA
25	Non-DOE	Watervliet Arsenal (DOD Facility) - Watervliet, NY, United States	46	1716	Passive Reactive Barrier	SCFA

2.4 FY 1999 VERIFIED DEPLOYMENTS BY FIELD OFFICE AND LOCATION

FY 1999 Verified OST Deployments by Field Office and Location

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
1	Albuquerque	Sandia National Laboratories - NM, Mixed Waste Landfill	10	606	Alternative Landfill Cover	SCFA
2	Albuquerque	Los Alamos National Laboratory, OU 1148	53	1893	SEAMIST	SCFA
3	Albuquerque	Kansas City Plant, Reactive Barrier hydraulic monitoring	465	1365	Colloidal Borescope	SCFA
4	Albuquerque	Los Alamos National Laboratory	1449	1687	Innovative Rotary Crossflow System for Volume Reduction of Mixed Hazardous and Rad Waste	ESP
5	Albuquerque	Los Alamos National Laboratory, Stored Waste Drums at LANL	1568	1104	Nondestructive Waste Assay Using Combined Thermal Epithermal Neutron Interrogation	MWFA
6	Albuquerque	Los Alamos National Laboratory	2017	1521	NDA Support of the CAO's Performance Demonstration Program	MWFA
7	Albuquerque	Grand Junction Office, Monticello Remedial Action Project	2155	887	Permeable Reactive Treatment (PeRT) Wall for Rads and Metals	SCFA
8	Albuquerque	Sandia National Laboratories - NM, OU 228	2158	1300	Segmented Gate System	SCFA
9	Albuquerque	Los Alamos National Laboratory, TA 303	2158	1348	Segmented Gate System	SCFA
10	Albuquerque	Los Alamos National Laboratory, OU C-33-010	2158	1740	Segmented Gate System	SCFA
11	Albuquerque	Los Alamos National Laboratory, C-33-007B	2158	1742	Segmented Gate System	SCFA
12	Albuquerque	Los Alamos National Laboratory, Radioactive Wastewater Treatment Plant	2391	1516	Chemical De-Nitrification Process	MWFA
13	Chicago	Brookhaven National Laboratory	74	1544	Pipe Explorer (TM) Surveying System	INDP
14	Chicago	Argonne National Laboratory - East, Chicago Pile 5	2100	1534	Remote Control Concrete Demolition System	DDFA
15	Chicago	Argonne National Laboratory - East, Chicago Pile 5 Reactor Facility Hot Cells	2100	1806	Remote Control Concrete Demolition System	DDFA
16	Chicago	Argonne National Laboratory - East, French Drain Area 317 and 319	2188	1848	Phytoremediation of Radiologically Contaminated Soils	SCFA
17	Chicago	Argonne National Laboratory - West, WAG9-OU-4	2188	1849	Phytoremediation of Radiologically Contaminated Soils	SCFA
18	Chicago	Brookhaven National Laboratory, Brookhaven Graphite Research Reactor	2374	1615	BNL ASTD: Deployment of Innovative Characterization Technologies and Implementation of the MARSSIM Process at Radiologically Contaminated Sites	DDFA
19	Chicago	Brookhaven National Laboratory, Sewage Treatment Plant	2913	1743	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
20	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	85	195	Light Duty Utility Arm	TFA
21	Idaho	Idaho National Engineering and Environmental Laboratory, Radioactive Waste Management Complex (RWMC)	154	1850	Very Early-Time Electromagnetic System	SCFA

FY 1999 Verified OST Deployments by Field Office and Location

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
22	Idaho	Idaho National Engineering and Environmental Laboratory	166	1480	Polymer Microencapsulation	MWFA
23	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	278	1327	Robotic Tank Inspection End Effector	INDP
24	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	890	416	Stereo Viewing System	TFA
25	Idaho	Idaho National Engineering and Environmental Laboratory, Test Area North (TAN)	1762	1675	Micropurging of Wells	SCFA
26	Idaho	Idaho National Engineering and Environmental Laboratory, Test Area North Hot Shop	1840	1549	Gamma Cam (TM) Radiation Imaging System	DDFA
27	Idaho	Idaho National Engineering and Environmental Laboratory, Sewage Treatment Plant	1847	1553	Oxy-Gasoline Torch	DDFA
28	Idaho	Idaho National Engineering and Environmental Laboratory, Security Training Facility	1847	1555	Oxy-Gasoline Torch	DDFA
29	Idaho	Idaho National Engineering and Environmental Laboratory, Initial Engine Test Facility	1847	1556	Oxy-Gasoline Torch	DDFA
30	Idaho	Idaho National Engineering and Environmental Laboratory, Auxiliary Reactor Area	1847	1559	Oxy-Gasoline Torch	DDFA
31	Idaho	Idaho National Engineering and Environmental Laboratory, Process Experimental Pilot Plant	1898	1543	Personal Ice Cooling System (PICS)	DDFA
32	Idaho	Idaho National Engineering and Environmental Laboratory, Advanced Test Reactor	1898	1563	Personal Ice Cooling System (PICS)	DDFA
33	Idaho	Idaho National Engineering and Environmental Laboratory, Security Training Facility	2100	1546	Remote Control Concrete Demolition System	DDFA
34	Idaho	Idaho National Engineering and Environmental Laboratory, RWMC	2122	1508	Advanced Tensiometer - Integrated Geophysical Characterization	CMST
35	Idaho	Idaho National Engineering and Environmental Laboratory, TRA-660 Facility	2151	1478	Remote Underwater Characterization System (RUCS)	RBX
36	Idaho	Idaho National Engineering and Environmental Laboratory	2158	1389	Segmented Gate System	SCFA
37	Idaho	Idaho National Engineering and Environmental Laboratory, Sewage Treatment Plant	2240	1560	Soft-Sided Waste Containers	DDFA
38	Idaho	Idaho National Engineering and Environmental Laboratory, Naval Reactors Facility	2240	1561	Soft-Sided Waste Containers	DDFA
39	Idaho	Idaho National Engineering and Environmental Laboratory, Auxiliary Reactor Area	2240	1688	Soft-Sided Waste Containers	DDFA

FY 1999 Verified OST Deployments by Field Office and Location

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
40	Idaho	Idaho National Engineering and Environmental Laboratory, Radiactive Waste Management Complex	2307	1391	Barometrically Enhanced Remediation Technology (BERT)(TM)	INDP
41	Idaho	Idaho National Engineering and Environmental Laboratory, CFA 691 Sewage Treatment Plant	2320	1504	Excel Automatic Locking Scaffold	DDFA
42	Idaho	Idaho National Engineering and Environmental Laboratory, Security Training Facility	2320	1562	Excel Automatic Locking Scaffold	DDFA
43	Idaho	Idaho National Engineering and Environmental Laboratory, Test Area North Process Experimental Pilot Plant	2320	1578	Excel Automatic Locking Scaffold	DDFA
44	Idaho	Idaho National Engineering and Environmental Laboratory, TRA 660 Advanced Reactivity Measurement Facility, Coupled Reactivity Measurement Facility	2322	1505	D&D and Remediation Optimal Planning System (DDROPS)	DDFA
45	Idaho	Idaho National Engineering and Environmental Laboratory, Sewage Treatment Plant (CFA-691)	2322	1823	D&D and Remediation Optimal Planning System (DDROPS)	DDFA
46	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	2359	1487	Oceaneering Space Systems Tank Sampling Tool	INDP
47	Idaho	Idaho National Engineering and Environmental Laboratory, New Waste Calcining Facility	2381	1410	NWCF Offgas Sampling	MWFA
48	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	2386	1485	Heel Sampling End Effector	TFA
49	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	2393	1448	Remote End Effector Exchange System	TFA
50	Idaho	Idaho National Engineering and Environmental Laboratory, Tank WM-188	2394	1449	Remote End Effector Tool Plate	TFA
51	Idaho	Idaho National Engineering and Environmental Laboratory, Test Area North	2930	1541	In Situ Sampling of Trichloroethylene at Test Area North	SCFA
52	Idaho	Idaho National Engineering and Environmental Laboratory, TREAT	2934	1519	Remote-Handled Transuranic Waste Surrogates	MWFA
53	Nevada	Nevada Test Site, Test Cell C, Area 25	1898	1689	Personal Ice Cooling System (PICS)	DDFA
54	Nevada	Nevada Test Site, U-2bu crater, Area 2	1898	1690	Personal Ice Cooling System (PICS)	DDFA
55	Oak Ridge	Paducah Gaseous Diffusion Plant, Solid Waste Management Unit 91	4	1482	Lasagna	SCFA
56	Oak Ridge	Portsmouth Gaseous Diffusion Plant, X-701B Plume Site	7	1238	Dynamic Underground Stripping	SCFA
57	Oak Ridge	Portsmouth Gaseous Diffusion Plant, X-701B Plume Site	17	1499	Electrical Resistance Tomography for Subsurface Imaging	CMST
58	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Melton Valley Storage Tanks: Concentrated LLW	20	1445	Out of Tank Evaporator	TFA

FY 1999 Verified OST Deployments by Field Office and Location

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
59	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Melton Valley Storage Tanks 29 and 30: Concentrated LLW	21	1446	Cesium Removal Using Crystalline Silicotitanate	TFA
60	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Melton Valley Storage Tanks W-26; Concentrated LLW	21	1732	Cesium Removal Using Crystalline Silicotitanate	TFA
61	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Melton Valley Storage Tanks W-27; Concentrated LLW	21	1738	Cesium Removal Using Crystalline Silicotitanate	TFA
62	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Melton Valley Storage Tanks W-31; Concentrated LLW	21	1739	Cesium Removal Using Crystalline Silicotitanate	TFA
63	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Pathway 2 (MSE TA) Upgrade	46	1708	Passive Reactive Barrier	SCFA
64	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT W-7: Pipe Capping and Waste Retrieval	85	1311	Light Duty Utility Arm	TFA
65	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT W-10: Pipe Cutting, Capping, and Waste Retrieval	85	1454	Light Duty Utility Arm	TFA
66	Oak Ridge	Portsmouth Gaseous Diffusion Plant, X-701B site	167	567	In Situ Chemical Oxidation Using Potassium Permanganate	SCFA
67	Oak Ridge	Paducah Gaseous Diffusion Plant	237	1463	Innovative DNAPL Characterization Toolbox	SCFA
68	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Melton Valley Storage Tanks: Concentrated LLW	350	1444	Crossflow Filtration	TFA
69	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Y-12 Reactive Barrier Trench S-3 Ponds	465	1302	Colloidal Borescope	SCFA
70	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT tank W-7	810	1734	LDUA Supervisory Data Acquisition and Supervisory Control System	TFA
71	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT tank W-10	810	1735	LDUA Supervisory Data Acquisition and Supervisory Control System	TFA
72	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT W-7	812	1253	Confined Sluicing End Effector	TFA
73	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), BVEST Tank C-1	1511	1308	AEA Fluidic Pulse Jet Mixer	TFA
74	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), BVEST Tank C-2	1511	1309	AEA Fluidic Pulse Jet Mixer	TFA
75	Oak Ridge	Paducah Gaseous Diffusion Plant, Site C400	1686	1584	Penetration Enhancement for the Cone Penetrometer Using Sonic Drilling Technology	CMST
76	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Building 3019	1898	1813	Personal Ice Cooling System (PICS)	DDFA
77	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Tank W-7 in the South Tank Farm of the Gunite & Associated Tanks (GAAT)	2085	1231	Houdini-II Remotely Operated Vehicle System	RBX

FY 1999 Verified OST Deployments by Field Office and Location

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
78	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Federal Facility Agreement (FFA) Tanks	2086	924	Remotely Operated Vehicle (ROV) System for Horizontal Tanks	RBX
79	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT W-10: Pipe Cutting	2093	1450	Pipe Cutting and Isolation System	TFA
80	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT W-7: Pipe Cutting	2093	1729	Pipe Cutting and Isolation System	TFA
81	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), Tank W-5	2232	996	Flygt Mixer	TFA
82	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT Tank W-9	2232	1826	Flygt Mixer	TFA
83	Oak Ridge	Paducah Gaseous Diffusion Plant	2238	1671	Ribbon NAPL Sampler	CMST
84	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT tank W-9	2935	1577	Particle Size Distribution Monitor for Tank Waste Slurry	CMST
85	Oak Ridge	Oak Ridge Reservation (Y-12, ORR, K-25, ORNL), GAAT Tank W-9	2936	1580	Density Monitor for Tank Waste Slurry	CMST
86	Oakland	University of California at Davis, LEHR	70	1379	BetaScint Fiber-Optic Sensor for Detecting Strontium-90 and Uranium-238 in Soil	CMST
87	Oakland	Lawrence Livermore National Laboratory - Main Site	2017	1522	NDA Support of the CAO's Performance Demonstration Program	MWFA
88	Ohio	Columbus Environmental Management Project - King Avenue	74	1486	Pipe Explorer (TM) Surveying System	INDP
89	Ohio	Fernald Environmental Management Project, Area 8 Phase III	2157	1437	Portable Hi-Purity Germanium Detectors for Delineating Contamination in Soils	CMST
90	Ohio	Fernald Environmental Management Project, Area 2, Phase III	2157	1453	Portable Hi-Purity Germanium Detectors for Delineating Contamination in Soils	CMST
91	Ohio	Fernald Environmental Management Project, Plant 8F, Drum Washer Facility	2303	1329	Track Mounted Shear/Crusher	DDFA
92	Ohio	West Valley Demonstration Project	2383	1822	Vitrification Expended Material Processing System	TFA
93	Richland	Hanford Site, DR Reactor	1795	1629	Mobile Integrated Temporary Utility System	DDFA
94	Richland	Hanford Site, 221-U Facility	1840	1634	Gamma Cam (TM) Radiation Imaging System	DDFA
95	Richland	Hanford Site, T-Plant	1840	1805	Gamma Cam (TM) Radiation Imaging System	DDFA
96	Richland	Hanford Site, F Reactor	1847	1632	Oxy-Gasoline Torch	DDFA
97	Richland	Hanford Site, DR Reactor	1847	1837	Oxy-Gasoline Torch	DDFA
98	Richland	Hanford Site, F Reactor	1954	1633	Sealed-Seam Sack Suit	DDFA
99	Richland	Hanford Site, DR Reactor	1954	1838	Sealed-Seam Sack Suit	DDFA
100	Richland	Hanford Site, DR Reactor	2153	1630	Compact Subsurface Investigation System	DDFA
101	Richland	Hanford Site, 221-U Facility, Ventilation Tunnel	2178	1510	CDI Remote Characterization System	RBX
102	Richland	Hanford Site, Hanford U-Plant	2402	1638	3-D Visual and Gamma Ray Imaging System	INDP

FY 1999 Verified OST Deployments by Field Office and Location

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
103	Richland	Hanford Site, Hanford U-Plant	2403	1639	Non-Intrusive Liquid Level Detection System	INDP
104	Richland	Hanford Site, 300 Area	2913	1539	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
105	Richland	Hanford Site, 300 Area, 300-FF-1 OU	2922	1676	Enhanced Site Characterization System	SCFA
106	Richland	Hanford Site, 221-U facility (ventilation tunnel)	2960	1667	Quantrad Scout Gamma Spectroscopy System	DDFA
107	Rocky Flats	Rocky Flats Environmental Technology Site, East Trenches Plume	46	1343	Passive Reactive Barrier	SCFA
108	Rocky Flats	Rocky Flats Environmental Technology Site, Solar Ponds Plume	46	1427	Passive Reactive Barrier	SCFA
109	Rocky Flats	Rocky Flats Environmental Technology Site, Pad 903	162	1640	Smart Sampling	SCFA
110	Rocky Flats	Rocky Flats Environmental Technology Site, Building 779	1898	1741	Personal Ice Cooling System (PICS)	DDFA
111	Rocky Flats	Rocky Flats Environmental Technology Site, Building 779	1942	1811	Position Sensitive Radiation Monitoring (Surface Contamination Monitor)	DDFA
112	Savannah River	Savannah River Site, ORWBG	55	1547	ResonantSonic Drilling	SCFA
113	Savannah River	Savannah River Site, R-Area Process Sewers	74	1545	Pipe Explorer (TM) Surveying System	INDP
114	Savannah River	Savannah River Site, Vadose Zone, A-014 Outfall	237	1367	Innovative DNAPL Characterization Toolbox	SCFA
115	Savannah River	Savannah River Site, Saturated Zone, A-014 Outfall	237	1368	Innovative DNAPL Characterization Toolbox	SCFA
116	Savannah River	Savannah River Site, C-Area Burning Rubble Pit (Vadose Zone)	237	1371	Innovative DNAPL Characterization Toolbox	SCFA
117	Savannah River	Savannah River Site, Vadose Zone, A-014-Outfall	237	1457	Innovative DNAPL Characterization Toolbox	SCFA
118	Savannah River	Savannah River Site, Vadose Zone, A-014-Outfall (2)	237	1458	Innovative DNAPL Characterization Toolbox	SCFA
119	Savannah River	Savannah River Site, 321-M Area	237	1814	Innovative DNAPL Characterization Toolbox	SCFA
120	Savannah River	Savannah River Site, R-Reactor Seepage Basins	237	1816	Innovative DNAPL Characterization Toolbox	SCFA
121	Savannah River	Savannah River Site, M-Basin	237	1818	Innovative DNAPL Characterization Toolbox	SCFA
122	Savannah River	Savannah River Site, 321-M Area	873	1673	Field Raman Spectrograph	INDP
123	Savannah River	Savannah River Site, SRS F Tank Pump 1	1511	1788	AEA Fluidic Pulse Jet Mixer	TFA
124	Savannah River	Savannah River Site, CTS Pit Pad H Area	1839	1779	Reactor Surface Contamination Stabilization	DDFA
125	Savannah River	Savannah River Site, ITP Tank 42	1839	1780	Reactor Surface Contamination Stabilization	DDFA
126	Savannah River	Savannah River Site, Tank 15 H Area (2nd phase)	1839	1781	Reactor Surface Contamination Stabilization	DDFA
127	Savannah River	Savannah River Site, 105 C Decon Facility (encapsulation of lead from 232F Facility)	1839	1782	Reactor Surface Contamination Stabilization	DDFA
128	Savannah River	Savannah River Site, ITP Tank 51	1839	1783	Reactor Surface Contamination Stabilization	DDFA

FY 1999 Verified OST Deployments by Field Office and Location

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
129	Savannah River	Savannah River Site, 105 L Transfer Bay	1839	1784	Reactor Surface Contamination Stabilization	DDFA
130	Savannah River	Savannah River Site, F Area Caustic Tank Basin	1839	1785	Reactor Surface Contamination Stabilization	DDFA
131	Savannah River	Savannah River Site, Old HB Line	1839	1786	Reactor Surface Contamination Stabilization	DDFA
132	Savannah River	Savannah River Site, 235-F Vault	1839	1839	Reactor Surface Contamination Stabilization	DDFA
133	Savannah River	Savannah River Site, 678-T Pad	1839	1841	Reactor Surface Contamination Stabilization	DDFA
134	Savannah River	Savannah River Site, RBOF Pad	1943	1801	ROTO PEEN Scaler and VAC PAC System	DDFA
135	Savannah River	Savannah River Site, SRTC	1943	1802	ROTO PEEN Scaler and VAC PAC System	DDFA
136	Savannah River	Savannah River Site, 105-C	1943	1804	ROTO PEEN Scaler and VAC PAC System	DDFA
137	Savannah River	Savannah River Site, E-Area Low-level Radioactive Waste Trenches	2122	1356	Advanced Tensiometer - Integrated Geophysical Characterization	CMST
138	Savannah River	Savannah River Site, M-Basin	2222	1605	Wireline Cone Penetrometer System for Multiple Tool Usage	INDP
139	Savannah River	Savannah River Site, A-014 Outfall	2238	1526	Ribbon NAPL Sampler	CMST
140	Savannah River	Savannah River Site, C-area Burning Rubble Pits	2238	1527	Ribbon NAPL Sampler	CMST
141	Savannah River	Savannah River Site, 321-M Solvent Storage Tank	2238	1712	Ribbon NAPL Sampler	CMST
142	Savannah River	Savannah River Site, A-014 Outfall	2238	1713	Ribbon NAPL Sampler	CMST
143	Savannah River	Savannah River Site, Vadose Zone	2238	1763	Ribbon NAPL Sampler	CMST
144	Savannah River	Savannah River Site, Saturated Zone	2238	1766	Ribbon NAPL Sampler	CMST
145	Savannah River	Savannah River Site, R-Reactor Seepage Basins	2399	1401	GeoVis Video Camera System for CPT	CMST
146	Savannah River	Savannah River Site, FPT-1	2408	1520	SRS Pump Tank Mixer	TFA
147	Savannah River	Savannah River Site, Sanitary Landfill	2410	1862	Enhanced In Situ Bioremediation (ISB)	SCFA
148	Savannah River	Savannah River Site, Four Mile Creek	2913	1436	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
149	Savannah River	Savannah River Site, Upper Three Runs	2913	1558	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
150	Savannah River	Savannah River Site, Steel Creek, 2-A Site	2913	1744	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
151	Savannah River	Savannah River Site, Pen Branch, 3 Site	2913	1745	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
152	Savannah River	Savannah River Site, Lower Three Runs	2913	1854	Improved Surface Water Monitoring for Radionuclide Discharges	SCFA
153	Savannah River	Savannah River Site, M-Basin	2949	1592	Color Recognition Sensor for Direct Push Systems	CMST
154	Savannah River	Savannah River Site, M-Basin	2950	1594	Membrane Interface Probe System for Direct Push System	CMST
155	Savannah River	Savannah River Site, A-014 Outfall	2950	1695	Membrane Interface Probe System for Direct Push System	CMST
156	Savannah River	Savannah River Site, C-Area Burning Rubble Pit	2950	1696	Membrane Interface Probe System for Direct Push System	CMST

FY 1999 Verified OST Deployments by Field Office and Location

No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
157	Savannah River	Savannah River Site, C-Area Burning Rubble Pit	2966	1858	In-Situ Air Sparging & Soil Vapor Extraction	SCFA
158	Non-DOE	Cape Canaveral (Launch Complex 34 (MSE-TA)) - Cape Canaveral, FL, United States	5	1408	Six-Phase Soil Heating	SCFA
159	Non-DOE	Commercial Site (Dry Cleaning) - Jacksonville, FL, United States	2237	1582	LIF Probe for CPT	CMST
160	Non-DOE	EPA Superfund Site (McCormick Barton Wood Preserving Plant) - Stockton, CA, United States	2238	1528	Ribbon NAPL Sampler	CMST
161	Non-DOE	Farm Credit Building (5th Floor computer Room) - Saint Paul, MN, United States	73	1724	In Situ Chemical Treatment of Asbestos	DDFA
162	Non-DOE	FUSRAP Ashland 1 Site - Tonowanda, NY, United States	2946	1728	Adaptive Sampling and Analysis Programs (ASAPs)	CMST
163	Non-DOE	Heritage Village (Dwelling Unit) - Southbury, CT, United States	73	1723	In Situ Chemical Treatment of Asbestos	DDFA
164	Non-DOE	Jacksonville (Sages Dry Cleaner) - Jacksonville, FL, United States	237	1369	Innovative DNAPL Characterization Toolbox	SCFA
165	Non-DOE	Kennedy Space Center (Cape Canaveral Air Station) - Cape Canaveral, FL, United States	307	1295	In Situ Permeability Measurements with Direct Push Techniques	CMST
166	Non-DOE	Kennedy Space Center (Cape Canaveral Air Station, Hanger K) - Cape Canaveral, FL, United States	381	1730	Miniature Pumps in the Cone Penetrometer Tip for Groundwater and Soil Sampling (Cone Sipper)	CMST
167	Non-DOE	Kennedy Space Center (Cape Canaveral Air Station. Launch Complex 34) - Cape Canaveral, FL, United States	2238	1299	Ribbon NAPL Sampler	CMST
168	Non-DOE	Kennedy Space Center (Cape Canaveral Air Station/Hanger K) - Cape Canaveral, FL, United States	243	1586	Cone Penetrometer Support: Operation, Maintenance, and R&D Activity Conducted on the OTD Cone Penetrometer Vehicle	CMST
169	Non-DOE	Kennedy Space Center (Cape Canaveral Air Station/Launch Complex 34) - Cape Canaveral, FL, United States	2399	1400	GeoVis Video Camera System for CPT	CMST
170	Non-DOE	NASA, Kennedy Space Center (Cape Canaveral Air Stn., Launch Complex 34) - Cape Canaveral, FL, United States	237	1809	Innovative DNAPL Characterization Toolbox	SCFA
171	Non-DOE	Netherlands National Geological Survey (NEPROMA PCW site) - Netherlands	1737	1421	DNAPL Bioremediation - RTDF	SCFA
172	Non-DOE	Newport News Shipyard (USS Nimitz) - Newport News, VA, United States	1840	1857	Gamma Cam (TM) Radiation Imaging System	DDFA
173	Non-DOE	North Island Naval Base (Deployment Site #1 CDF) - CA, United States	465	1719	Colloidal Borescope	SCFA
174	Non-DOE	North Island Naval Base (Deployment Site #10) - CA, United States	465	1718	Colloidal Borescope	SCFA
175	Non-DOE	North Island Naval Base (Deployment Site #9) - CA, United States	465	1720	Colloidal Borescope	SCFA

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No.	Field Office	Site	OST Tech ID	App. ID	Technology Title	Focus Area
176	Non-DOE	Poland (Czechowice Oil Refinery) - Czechowice, Poland	2188	1656	Phytoremediation of Radiologically Contaminated Soils	SCFA
177	Non-DOE	Shaw Air Force Base (OU-4) - Sumter, SC, United States	46	1717	Passive Reactive Barrier	SCFA
178	Non-DOE	Tower Properties (Elevator Shafts) - Kansas City, MO, United States	73	1725	In Situ Chemical Treatment of Asbestos	DDFA
179	Non-DOE	University of Wisconsin (Dormitory Hallway) - Madison, WI, United States	73	1722	In Situ Chemical Treatment of Asbestos	DDFA
180	Non-DOE	Visalia (Power Pole Treatment Yard) - Visalia, CA, United States	1519	1736	Hydrous Pyrolysis/Oxidation	SCFA
181	Non-DOE	Visalia (Power Pole Treatment Yard) - Visalia, CA, United States	7	1842	Dynamic Underground Stripping	SCFA
182	Non-DOE	Watervliet Arsenal (DOD Facility) - Watervliet, NY, United States	46	1716	Passive Reactive Barrier	SCFA